

Tong Wang

PERSONAL INFO

Affiliation: Department of Statistics, Texas A&M University
Institute of Statistics and Big Data, Renmin University of China
Phone: (+1)979-739-1848 & (+86)18612699542
E-mail: tong@stat.tamu.edu & 2016000101@ruc.edu.cn
Website:

OBJECTIVES

I am currently on the dual Ph.D. program between the Department of Statistics at Texas A&M University and the Institute of Statistics and Big Data at Renmin University of China. I will graduate with two Ph.D. degrees from Texas A&M University by Aug 2021 and Renmin University of China by Dec 2021, respectively.

EDUCATION

Texas A&M University

Department of Statistics, Ph.D. candidate, supervised by Dr. Samiran Sinha

Aug. 2018 – present

Renmin University of China

Institute of Statistics and Big Data, Ph.D. candidate, supervised by Dr. Wei Ma

Sep. 2016 – present

Sichuan University

College of Mathematics, B.S. in Statistics

Sep 2012 – June 2016

RESEARCH INTEREST

- Adaptive design of clinical trials
- Survival analysis
- Bayesian methods
- Misclassification

PUBLICATION

- **Wang, T.** and Ma, W. (2020) The impact of misclassification on covariate-adaptive randomized clinical trials. *Biometrics* in press.
- **Wang, T.**, He, K., Ma, W., Bandyopadhyay, D. and Sinha, S. (2020+) Minorize-Maximize Algorithm for the Generalized Odds Ratio Model for Clustered Current Status Data. *Submitted*.

WORKING PAPERS

- Wang, T. and Ma, W. The impact of misclassification on covariate-adaptive randomized clinical trials under Generalized Linear Model.
- Wang, T. and Sinha, S. Novel method for reducing bias in the causal effect estimate with misclassified exposure variable.

EXPERIENCE

Teaching Assistant

Department of Statistics, Texas A&M University

Jan. 2019 – Present

College Station, TX

- STAT 415: Mathematical Statistics
- STAT 302: Statistical Methods
- STAT 312: Statistics for Biology

Research Assistant

School of Public Health, Texas A&M University

Sep. 2019 – Present

College Station, TX

- Investigated the impact of use of air-conditioner on obesity.
- Investigated the association of exposure to arsenic from drinking water with COVID-19 infection and mortality in Texas
- Analyzed the data about asthma of children

Consulting Experiences

Texas A&M University

Sep. 2018 – May 2019

College Station, TX

- Helped a client from the Department of Molecular and Cellular Medicine to determine an optimal combination of chemicals used in a medicine to control Type-II diabetes.
- Helped a client from the Department of Health Promotion & Community Health Sciences, to develop a model to analyze aggregated proportion data to detect the time trend in the performance of hospitals from a geographic region.
- Helped a client from the Department of Health and Kinesiology to calculate the sample size for her R21 grant proposal for studying diabetes management and stress among people of color from the state of Texas.

PRESENTATIONS

Invited seminar presentations

- Institute of Statistics and Big Data, Renmin University of China, Beijing, China. July 2020

Contributed presentations

- Joint Statistical Meetings. Aug. 2020

OTHER PROFESSIONAL ACTIVITIES

- Co-author of contributed poster, Improving health outcomes of asthmatic children through indoor air quality management and asthma education — Case study. Healthy Buildings Europe 2021, June 2021
- Co-author of the contributed talk, The Association of Exposure to Arsenic from Drinking Water with COVID-19 Infection and Mortality in Texas, 2021 Society of Toxicology Annual Meeting. Mar. 2021
- Co-organizer of the invited session, New methods for complex data and Big Data analysis in the 2020 ICASA Applied Statistics Symposium. The speakers were Yang Ni, Peter Mueller, Jeffrey Moris, Samiran Sinha. Dec. 2020.

AWARDS & HONORS

- China National Scholarship for doctoral students (2020)

TECHNICAL SKILLS

Programming Languages: R, Python, C++

Editing: LaTeX, Word